

ABSTRACT OF THE DISCLOSURE

A membrane comprising at least one elastomeric material, at least one polymeric fluid barrier material, and a laminar nano-filler having an average platelet thickness of up to about 10 nanometers and an average aspect ratio of at least about 200 provides desirable appearance and low gas transmission characteristics. The membrane may be a single layer, but preferably the membrane includes at least one layer of an elastomeric material and at least one layer of a polymeric barrier material, in which the elastomeric material layer and/or the polymeric barrier material layer comprises the laminar nano-filler.